

CLAIM AMENDMENTS

IN THE CLAIMS

This listing of the claims will replace all prior versions, and listing, of claims in the application or previous response to office action:

1. (Currently Amended) A hydraulic motor vehicle gearbox control device, comprising

~~a plastic hydraulic distribution plate made of plastic, in which having channels therethrough extend for the distribution of hydraulic fluid and to cool circuit electronics of an electronic control unit housed on said plate, said plate having -in which- electric conductors of the gearbox control device are embedded in particular are fully sheathed therein, and/or -on the surface of which electric conductors of the gearbox control device are metallized on the surface thereof.~~

2. (Previously Presented) The hydraulic motor vehicle gearbox control device according to Claim 1, wherein

- the conductors embedded in the hydraulic distribution plate are encapsulated or sprayed metal wires, pins, strips or punched lattices.

3. (Currently Amended) The hydraulic motor vehicle gearbox control device according to Claim 1 wherein

- the hydraulic distribution plate is configured as an injection molded MID circuit support.

4. (Previously Presented) The hydraulic motor vehicle gearbox control device according to Claim 1, wherein

- the conductors extend between an electronic control unit module secured on the hydraulic distribution plate and at least one solenoid valve for the hydraulic control system.

5. (Previously Presented) The hydraulic motor vehicle gearbox control device according to Claim 1, wherein

- the conductors extend between an electronic control unit module secured on the hydraulic distribution plate and a gearbox connector attached to the distribution plate.

6. (Currently Amended) The hydraulic motor vehicle gearbox control device according to Claim 4, wherein

- the electronic control unit module is in contact with the electric conductors via a flexible circuit board.

7. (Previously Presented) The hydraulic motor vehicle gearbox control device according to Claim 4, wherein

- a channel is arranged for hydraulic fluid in the hydraulic distribution plate adjacent to the electronic control unit module.

8. (Previously Presented) The hydraulic motor vehicle gearbox control device according to Claim 4, wherein

- the electronic control unit module has a metal base plate, which is cast in the hydraulic distribution plate.

9. (Currently Amended) The hydraulic motor vehicle gearbox control device according to Claim 4, wherein

- a section of the surface of the hydraulic distribution plate forms the base plate of the electronic control unit module, and

- a circuit support of the electronic control unit module is secured directly onto this section of the surface of ~~he~~ the hydraulic distribution plate.

10. (Currently Amended) A method for manufacturing a hydraulic motor vehicle gearbox control device comprising the steps of:

- providing a plastic hydraulic distribution plate with channels ~~which extend therein~~ for the distribution of hydraulic fluid, said plate adapted to receive an electronic control

unit whereby an electronic circuit of said unit is cooled by the distribution of fluid through said plate channels and

~~- embedding, in particular fully sheathing, integrating electric conductors of the gearbox control device, wherein the conductors are integrated~~ into the hydraulic distribution plate by spraying or encapsulating or mortising or sticking.

11. (Previously Presented) The method according to Claim 10, wherein
- the conductors are integrated into the hydraulic distribution plate by means of an MID method.

12. (Canceled)

13. (Canceled)

14. (Canceled)

15. (Canceled)

16. (New) An integrated hydraulic cooling fluid/signal and power distribution device for motor vehicle gearbox control systems, said device comprising:

a plastic plate having (i) channels extending therethrough for the receipt of hydraulic fluid, and (ii) electrical conductors structurally integrated therein and/or thereon, said plate adapted for receipt of an electronic control unit for said gearbox control system, said unit comprising an electronic circuit for electrical communication with said conductors wherein said circuit is cooled by fluid passing through said channels extending through the plate.

17. (New) The device of claim 16 wherein the plastic plate further comprises an integrated metal base plate adapted for receipt of the electronic control unit.

18. (New) The device of claim 17, wherein the channels are in contact with the metal base plate.

